

Get started with the RT Controller

A quick guide about how to get started with your RT system



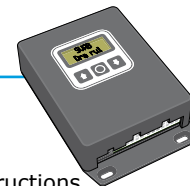
Get started with the RT Controller
Version 1.3 (090831)
(This instruction works best with the "User Manual RT Controller" v. 2.1 and forward).

Art.no: 630009

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1 Preset When your RT system is installed, both hydraulically and electrical it's time to configure the **RT Controller**. Usually the RT starts when the machines **ignition** is turned on.



When the RT is started for the first time it wants you to follow some instructions.

(On earlier models of the RT Controller there is no language selection at startup. If you don't see any language selection at startup, just skip this part).

First you select your language.



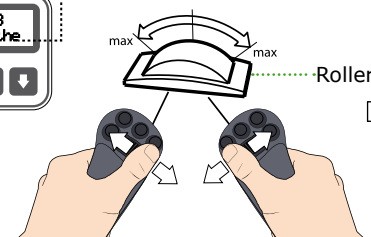
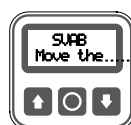
Scroll through the different languages by pressing the arrow keys and .



Select your language, save and continue by pressing the middle button .



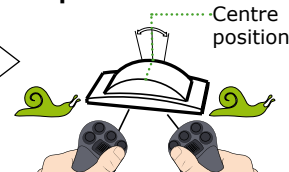
Now move each roller to their end position **several** times



Continue until the black squares (■) stops flashing in the display



Then move the rollers **slowly** a few times forward and backward over the **centre** position.



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... 1. Preset cont.

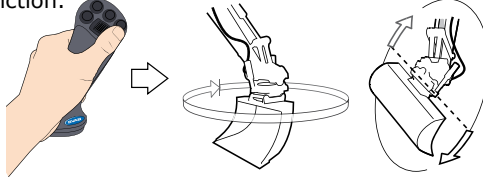
Then press the middle button, let go of the rollers and press the middle button again.



The preset is now complete! Make sure nothing or no one is near the rotortilt, then **start the machine!**



Make sure the machines digging functions are **enabled** (the red safety bar). The rotor and tilt should now move as you move the rollers. **Note** or **memorize** which roller controls which function.



If you need to redo the preset see the **RT user manual v. 2.1** (and forward) page 78 ch. **9.18 Recalibration**. The RT user manual comes with the RT-Controller and should be placed in the machines cabin.

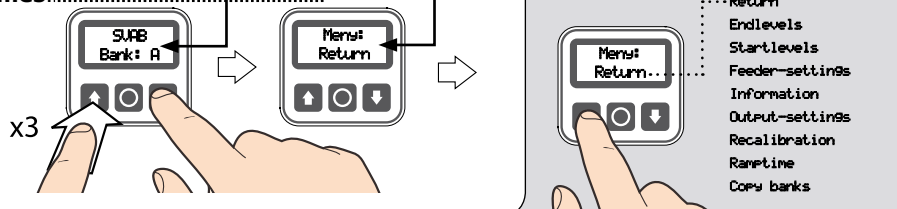


How you navigate in the RT Controller

Main menu

Settings that adapts the RT system to the machine are made in the **main menu**.

From the operating mode, **press and hold** arrow down and press arrow up 3 times to access the main menu.



To browse in the menu you use the buttons **up** and **down**. To make a selection press **center**. To return to the operating mode select **Return**. Wherever you are in the menu you can press and hold **center** for about 3 seconds to return to the operating mode.

Tip!

If you by accident select the "bank selection menu", make sure **Bank: A** is selected and press **center** to get back to the operating mode.



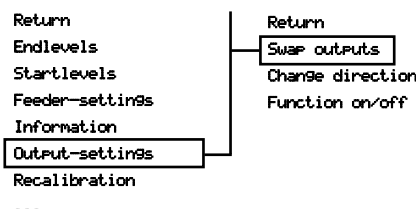
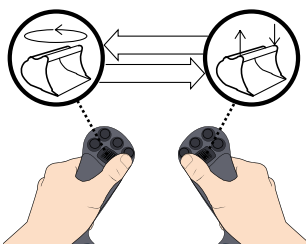
If you want to know more about how you easily configure your machine for several users, see the RT user manual p. 57 ch. 8.

2a. Change position on the rotor/tilt

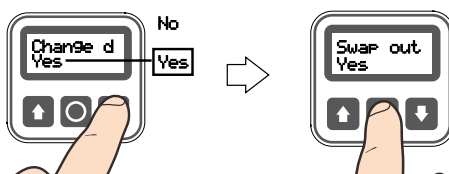
(If you don't want to change the position or direction, go to step 3).

When you change position on the outputs the roller that controls the rotation will control the tilt, and vice versa.

Select **Output-settings**, then **Swap outputs** in the **main menu**.



Scroll to "Yes"



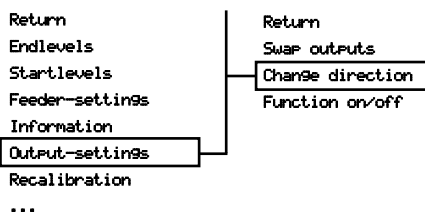
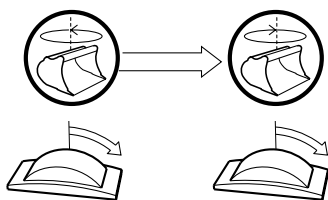
Confirm and return to the menu by pressing **center**.

②b. Change direction of the rotor/tilt

(If you don't want to change the position or direction, go to step 3).

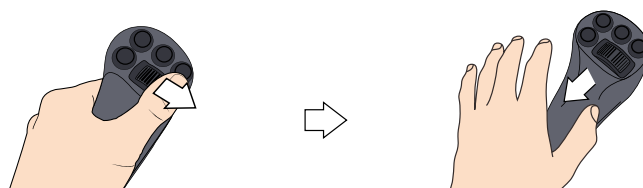
If your rotor for example rotates clockwise when you move the roller to the left and you want to change this, do the following.

Choose **Output-settings**, then **Change direction** in the **main menu**.



Move the roller controlling the rotor or tilt depending on what you want to change.

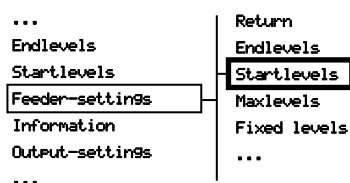
Let go of the roller and confirm and return to the menu by pressing **OK**.



③. Feeder settings To make your rotortilt go as smooth as possible you have to adjust the flow of the feeder so that it is in good relation to the rollers. To make the adjustment of the flow you access the settings "Startlevels" and "Endlevels". The feeders start level is **common for all functions** (rotor/tilt/grip etc.) and you only have to set it correctly once.

③a. The feeder's startlevel

Select **Feeder-settings**, then **Startlevel** in the **main menu**.



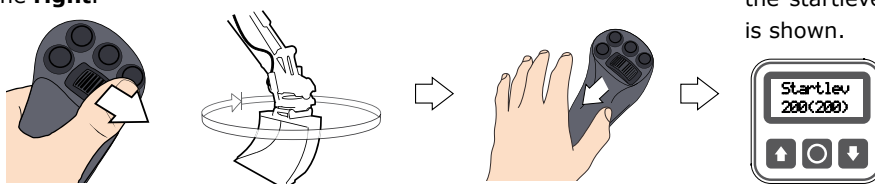
During the start and end -level settings the rotor and tilt are movable in **both directions** but you can only set the level for the **chosen direction**.



Move the **roller** controlling the rotor to the **right**.

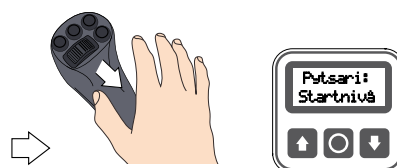
Let go of the roller.

The value for the startlevel is shown.

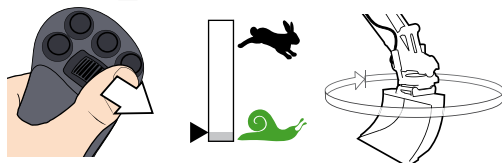


Move the roller to the **right** and find the position on the roller where the rotor/bucket rotates with the lowest speed that you want it to have during labour. Also make sure that your machine's engine is **labouring** and not beeing idle. **Keep** the roller in this position and press **OK**.

Let go of the roller.



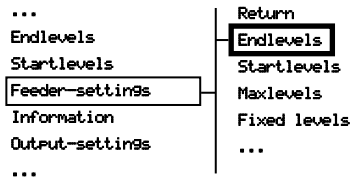
You are now done with the feeders start level!



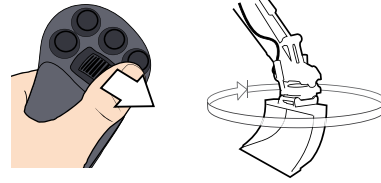
cont. on the next page ➡

3b. The feeder's end level: rotation

Select **Feeder-settings**, then **Endlevels** in the **main menu**.



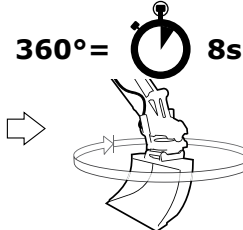
Move the **roller** which controls the rotor, to the **right**.



Let go of the roller.

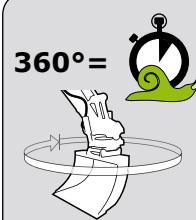
The value of the end level is shown.

Move the roller to the **right** and find the position on the roller where it takes about 8 sec. for the bucket to rotate completely. Keep the roller in this position and press .



Let go of the roller.

Repeat step **3b**. but in the rollers **opposite direction, left!**



. Then let go of the roller and **redo step 3b** for the direction concerned.

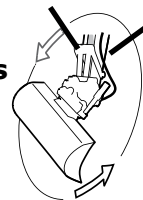
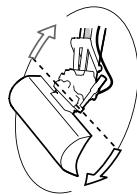
If you move the roller to the right as much as possible but notice that the rotor/bucket won't make a full circle in 8 sec, then keep holding the roller to the right and press . Then let go of the roller and **redo step 3b** for the direction concerned.

3c. The feeder's end levels: tilt

Repeat step **3b** for the tilt but this time you move the roller controlling the **tilt** to the right and then to the left.

Find the position on the roller where it takes 4 sec for the tilt/bucket to move from side to side. Hold the roller in this position and press .

Note. Move the roller as **little as possible** to achieve the 4 sec. tilt from one side to the other.

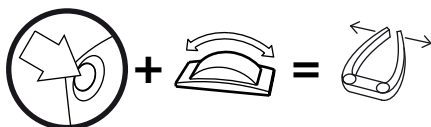


3d. The feeder's end levels: shifted in grip

(If you do not have a shifted in grip, go on to step 4).

The feeder's end level for the grip you set **only** if you have the grip connected via a **shifted in roller**.

button (see the "Connecting the SVAB Grip L8 to the RT Controller" -sheet)



For a shifted in grip you repeat step **3b**, but instead of only moving the roller, you **press and hold** the grip's shift in



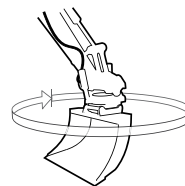
Note. You can release the button once the grip is selected!

④ Start levels for the external valves

If needed select "Return" and go back to the main menu. Select "Start levels" in the **main menu**.

Move the **roller** which controls the rotor to the **right**.

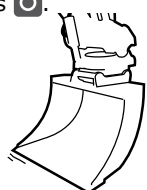
Return
Endlevels
Startlevels
Feeder-settings
Information
...



Let go of the roller

The value for the start level is shown.

Move the roller to the **right** and find the position on the roller where the rotor/bucket **just starts moving**. Hold the roller in this position and **look at the value in the display**. From this value, move the roller a bit more to the right until the value **increases with 20**, then press .



+ 20

Let go of the roller

Now repeat step 4. but in the rollers **opposite direction, left**.

Repeat step 4. for the tilt and its roller.



You are now done with the start levels, select "Return" to go back to the operating mode.

Återgå
Slutnivåer
Startnivåer
Fetsarinställningar
Information
...



The most necessary settings for the RT Controller and your machine are now completed!

Frequently asked questions

The machine sounds strained when I use the rotor/tilt and the external valves self closes at fast speeds.

The feeder's end level might be set too high, **see step 3b-3c The feeder's end level: rotation/tilt** in this instruction and try to set the levels **lower** than you did the last time. If the problems persists, try **increasing the end level of the external valves**. See the **RT user manual** page 55 ch. **7.6 End levels**.

I get full speed on the rotor/tilt without having reached the end position of the roller.

The feeder's end level is set too high, **see step 3b-3d The feeder's end level: rotation/tilt/grip** in this instruction and try to set the levels **lower** than you did the last time.

Rotor/tilt/grip goes faster when several functions are run simultaneously.

The feeder's end level is set too low, **see step 3a The feeder's start level** in this instruction and try to set the levels **higher** than you did the last time.

Rotor/tilt/grip goes slower when several functions are ran simultaneously.

The feeder's max level might be set too low. See the **RT user manual** page 53 ch. **7.4 Feeder's max level** in the **RT user manual** and **increase the max level** slightly.

My rotor/tilt/grip runs too slow which is caused by the feeder's end level beeing set too low (se step 3c-e). When I try to increase the end level above a certain value it doesn't work.

You can never set an end level higher than the max level. Try **increasing the feeder's max level** some and THEN increase the feeder's end level. See the **RT user manual** page 53 ch. **7.4 Feeder's max level**.

My rotor/tilt/grip is twitchy or vibrates at a certain position on the roller and I'm certain I set the start and end levels correctly.

The magnets on the valves can be more sensitive than usual, lower the **ripple amplitude** from **45 to 20**. See the **RT user manual** page 80 ch. **9.19 Ripple**.

I have read your instructions carefully, set the start and end levels accordingly, but the rotor/tilt still doesn't move as fast as I want it to.

Your machine might have a slightly higher servo pressure than what's common and you therefore need a stronger feeder. The usual feeder's are 20bar, but there are also 32bar feeder's which often solves this problem. Call SVAB for further information or ordering.

Tel. **+46 582 152 30**.

My rotor/tilt starts with a powerful jerk.

Your external valves start levels are probably set too low. Try increasing them some. **See step 4. Start levels for the external valves** in this instruction.

The feeder's start level might also be set too high. Try lowering it some. See **step 3a The feeder's start level** in this instruction.

The rotor stops with a jerk when I let go of the roller.

Check the oil pressure to the rotor/tilt, this should never be above 230bar

My machine sounds very strained when I use the rotor/tilt/grip slowly.

Increase the start level of the external valves for the concerned function. **See step 4. Start levels for the external valves** in this instruction.